To,

The Executive Engineer,

Project Divison, Yelahanka Zone

BBMP office, Bangalore.

"PMC & INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection report for the below mentioned work.

Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

em No	Description of work	Unit	Qty
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED.SR 2012-13	Each	4.00
	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13		
2	0 to 50 m	m	200.00
3	50 to 100 m	m	200.00
4	100 to 150 m	m	200.00
5	150 to 200 m	m	200.00
6	200 to 250 m	m	200.00
7	251 to 300 m	m	200.00
8	300 to 350 m	m	165.00

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Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

9	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED III NO 84	Rmtr	167.00
10	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 250mm dias. (Page No. 88 Item No. 12.116.5) PWD SR 2018-19	Rmtr	24.00
11	Providing 175mm dia ms casing cap page no III it no 85 pred 12-13 sr	no	4.00
12	Providing MS Casing pipe collars page no III it no 86 pred 12-13 sr	no	24.00
13	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO XLII	Unit	2.00
14	KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (Page 92 ITEM NO 13.6)	Mtr	354.00
15	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15	Mtr	720.00
16	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length pno 558 ino 3 bwssb sr 14-15	No	59.00

17	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44No.6.6.6 KPWD Electrical SR 2014-15	Each	2.00
18	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15	Mtr	35.00
19	Labour charges for laying of 1.1 K.V class UG cable, P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15	Mtr	45.00
20	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., completeP No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15	Mtr	39.00
21	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15	Mtr	4.00
22	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15	NO	2.00
23	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No.55, I No. 7.1) KPWD Electrical SR 2014-15	NO	2.00
24	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No44/I No 6.7.4 KPWD Electrical SR 2014-15	Each	6.00
25	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... P No62 I No 7.14.2 KPWD Electrical SR 2014-15	Each	12.00
26	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	Each	2.00

	pno 47 IT 6.16.5 KPWD Electrical SR 2014-15		
27	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15	Sq.Cm	75300.00
28	KSRB 13-7.1-4: Providing and fixing in position 65mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 Page No.90 Item No. 13.56 / PWD SR 2018-19	NOS	2.00
29	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No.92/ I. No. 13.81.3 PWD SR 2018-19	NOS	4.00
30	Gate value 65mm nominal bore gun metal P. No.XXVI sl No. 662 PWD SR	NOS	4.00
31	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter	NO	2.00
32	Earth work excavation By Manuall Means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in Soft rock/ ordinary rock not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications. (P.No.6, I.No.2.3) PWD SR 2018-19	cum	2098.37

33	Filling the Foundation Trenches using approved Sand as per Drawing & Technical Specification in 250mm layers, Whereever necessary watering and ramming including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications Morth Chapter 12. (P.No.221, I.No.27.14) PWD SR 2018-19	cum	699.46
34	Providing and installing at site of work P.V.C pipes including cost of pipes and specials and labours including lowering into trenches laying true to line including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from excavations etc complete	Rmtr	3108.70
35	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (Page No.7, Item No. 2.11) PWD SR 2018-19	cum	1398.92
36	Providing, laying, spreading and compacting graded crushed stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P-155 , I.no 20.18).	cum	466.31
37	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. Page No. 6 / Item No. 2.4 of PWD SR 2018-19	cum	159.30
38	KSRRB M2900-2.2. KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 2900 Pag No, 254, Item No. 34.3, PWD SR 2018-19	Mtr	120.00
39	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS Page No. 7 / Item No. 2.15 of PWD SR 2018-19	cum	14.14
40	0734 - Providing Aggregate 53 mm nominal size (P.I / I. 24) PWD SR 2018-19	cum	79.18

41	0750 - Providing Aggregate 40 mm nominal size (P.II / I. 25) PWD SR 2018-19	cum	14.14
42	0749 - Providing Aggregate 20 mm nominal size (P.II / I. 28) PWD SR 2018-19	cum	14.14
43	0334 - Providing sand / Artifical Sand / Manufactured sand (P.II / I. 49) PWD SR 2018-19	cum	9.43
44	Supplying and fixing of Special Multiplay system ,with curved slide and number panel upright structural posts oh heights 2.4m 2.7m , 3.3m , schedule GOT Dip galvanized steel with a 114mm OD and 2.2mm wall thckness of the tubing all metal components are to be finished with a baked on powder coat finish with deck of size 1.45 x 1.45m and staircase of size 1.5m x 0.77m are fabricated from 2mm performed solid punhed steel deck perimeter is precsion pre punched for attacments decks are pressed punched and welded along with a hydraulic of height 2.2m and dia 32mm shall be an all robotic welded unit fabricated from 32 O.D curved slide size 1.94m x 1.85mx2.4m panels toprrails of monkey loop of size 1.8m x 1.3m deck size 1.45 x 1.45m are fabricated from 2mm perforcated solid punched steel roof of size dia 2 m and height 0.82m spiral slide of size 1.16m x 1.16m x 3.6m panels the rates are to be inclusive of supply and installation at site inclusive of all taxes and transportation charges	No	3.00
45	Supplying and fixing of Special Multiplay system ,with curved slide and number panel upright structural posts oh heights 2.4m 2.7m , 3.3m , schedule GOT Dip galvanized steel with a 114mm OD and 2.2mm wall thckness of the tubing all metal components are to be finished with a baked on powder coat finish with deck of size 1.45 x 1.45m and staircase of size 1.5m x 0.77m are fabricated from 2mm performed solid punhed steel deck perimeter is precsion pre punched for attacments decks are pressed punched and welded along with a hydraulic of height 2.2m and dia 32mm shall be an all robotic welded unit fabricated from 32 O.D curved slide size 1.94m x 1.85mx2.4m panels toprrails of monkey loop of size 1.8m x 1.3m deck size 1.45 x 1.45m are fabricated from 2mm perforcated solid punched steel roof of size dia 2 m and height 0.82m spiral slide of size 1.16m x 1.16m x 3.6m panels the rates are to be inclusive of supply and installation at site inclusive of all taxes and transportation charges	No	1.00
46	Removing and resetting of kerb stones (SR Pg no 270 item no 37.57)	m	1608.00
47	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc complete of size 450 x 150 x 500mm (SR Pg no 27 item no 5.29.1)	Nos	1968.56
48	KSRB 15-15.3 Providing and applying painting in two coat with Synthetic enamel paint of approved brand and manufacture on concrete surface with cost of materials ,labour ,complete as per specifications.(SR Pg no 180 item no 24.1)	Sqm	819.60

49	KSRB 14.6.1 Providing and laying heavy duty cobble stones 60mm thick interlock pavers,using cement and course sand for manufacturer of blocks of approved size,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed and conpacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to comeup in between joints , final compaction of pavers surfaces joint into its final level including cost of materials,labour and HOM complete as per specifications	m	396.50
50	Earth work excavation by manual means in ordinary soil involving an average horizental throe upto 2M and an average lift upto 0.5m excavated surface levelled and sides neately dressed the disposed earth to be levelledbneatly fter breaking the clouds complete as per specifications (P NO 143 I N 19.1 OF PW,P P&IWTD SR 2018-19	Cum	206.25
51	KSRRB M2100-10 Providing and laying in position Plain Cement Concrete 1:3:6 with OPC cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.89 cum and fine aggregates @ 0.46cum, in foundation machine mixed, concrete laid in layers not exceeding 15cms. well compacted, in foundation including cost of all materials and curing, labour, HOM curing complete as per specifications.(SR18-19 Pg 222 & Item no 27.18))	Cum	12.38
52	KSRB4-1.6 providing an laying in position Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs ,with 20mm and downsize graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum ,amchine mixed ,concrete laid in layersnot exceeding 15 cms thick ,well compacted in foundation ,plinth and cills ,including cost of all materials ,albour ,HOM ,curing compete as per specifications (P-13 I N-4.6 SR 2018-19)	Cum	12.38
53	KSRRB 2.6 Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site (P-7 I N-2.13 SR 2018-19)	Cum	240.00
54	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification (S.R Page no 5, item no 2.3)	Cum	26.81
55	Lead for Disposal of Earth shall be payable at Carriage rates (Lead & lift) by mechanical means including loading and unloading upto 15km (S.R Page no 5, item no 2.4, 2.21)	Cum	7.56

56	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials,labour, HOM of machinery, curing complete as per specifications. specification No KBS 4.1,4.2. S.R Page no 13, item no 4.3	Cum	4.37
57	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications SR Page 23 iteam 5.9	Cum	17.49
58	Providing and constructing non load bearing walls withsolid concrete blocks of size 400x100xx200mm having a block density not less thean 1800kg/m3 having a minimum average comprehensive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1) :2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materilals ,labour charges ,scaffolding ,curing ,hire ,charges of machinaries etc complete as per specifications.S.R Page no 25, item no 5.27.2 For 150mm wall	sqm	102.82
59	Providing and constructing non load bearing walls withsolid concrete blocks of size 400x100xx200mm having a block density not less thean 1800kg/m3 having a minimum average comprehensive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1) :2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materilals ,labour charges ,scaffolding ,curing ,hire ,charges of machinaries etc complete as per specifications.S.R Page no 25, item no 5.27.2 For 100mm wall	Sqm	9.76
60	KSRB6-8.2 :Construction of partition wall 10 cms thick with table moulded modular burnt bricks of class designation 5.0Newton per Sqmm with cement mortor 1:4 including cost of materials ,labours charges ,scaffolding,curing complete as per specifications, .S.R Page no 31, item no 6.30	Sqm	0.00
61	KSRB6-14.10-3 :providing flooring with 20mm thick polished cadapa slabs usings cement mortor 1:6 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab ,including cost of materials ,alabour ,curing ,polishing complete as per specifications.(S.R Page no 105, item no 14.17	Sqm	5.10
62	KSRB 4.2.8 providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 320kgs ,with 20mm and downsize graded granite metal coarss aggregates @ 0.69cum and fine aggregates @ 0.46cum with supoer palstisisers IS 9103-1999 reaffirmed -2008 ,machine mixed ,concrete laid in layers not exceeding 15cms thick ,vibrated for all works in ground floor level for roof slabs ,staircases ,lintels and beams retaining walls ,return walls ,walls (any thickness) including attached piasters ,columnspillars ,posts,struts ,buttreses	sqm	6.20

	,string ,or lacing courses ,parapets coping ,bed blocks ,anchor blocks ,plain window cils ,fillets etc ,including cost of all materials ,alabour ,HOM ,curing ,complete but exclsding cost of reinforcement as per epecification (S.R Page no 14, item no 4.13		
63	KSRB 4.2.10 Providind and laying in position reinforcement cement concrete Mix M20 with OPC @24kgs ,with 12mm and downsize graded granite metal coarse aggregates @ 0.05175cum and fine aggregates @ 0.0345cum ,with super plasticisers @0.225lts ,amchine mixed ,well compacted for plain chajja of 7.5cms ,average thickness upto ground floor level ,including cost of all materials ,labourr ,HOM finishing ,curing ,complete but excluding cost of reinforcement as per specifications (S.R Page no 15, item no 4.19	sqm	5.85
64	KSRB 4.6.2:Providing and removing centering ,shuttering,strutting ,propping etc ,and removal of form work for Suspended floors ,landings ,balconies and likes ,thickness upto 200mm incliding cost of all materilas labour complete as perspecifications for heights more thean 3.50m (S.R Page no 16, item no 4.29	Sqm	39.30
65	KSRB 4.6.10:Providing and removing centering ,shuttering ,strutting propping & and removal of form work for chejja ,corbels etc including edges including cost of all materials ,labour ,complete as per specifications.(S.R Page no 17, item no 4.37	Sqm	0.00
66	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 (S.R.page 19 item 4.46.2)	Tonne	1.09
67	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering,, Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing complete as per specifications and direction of the Engineer in charge Providing Lime rendering for Plastering to Ceiling including cost of materials, labour, curing complete as per specification. S.R Page no 113, item no 15.22	Sqm	32.03
68	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for Outside Plastering S.R Page no 113, item no 15.16	Sqmt	281.88
69	Providing Skirting ,dadoing ,rises of steps with white glazed tiles 6mm thick on 10mm thick cement palsters 1:3 and jointes with white ceemnt slurry over existing rough plasrter surface using glazed tles of approved make and size including cost of materials ,labour complete as per	Sqmt	93.58

70	Providing Ceramic tiles/Antiskid tiles of size 30x30cms of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. S.R.page108 item No.14.36.2	Sqmt	35.08
71	KSRB9-7.1 providing and fixing fully panelled wood shutters for doors ,styles and rails of 30mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials ,labour ,HOM complete as per specifications(excluding cost of fixtures S.R.page54 item No.9.25	sqm	1.89
72	KSRB9-9.25-3Providing and fixing in position fully glazed shutters for ventilators side hung or central pivoted with wood styles and rails of 25mm thick ,50mm wide and central divider of 25mm ,wide 3mm thick reeded glass fixed with wooden beading of size 10mm wide flushed to the thickness of the frame including cost of materilas ,labour charges ,HOM complte as per specifications (excluding cost of fixtures) S.R.page 59 item No.9.77	Sqm	2.68
73	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications S.R.page 34 item No.7.9	kgs	4.68
74	Fixing of door frame in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications S.R.page 60 item No.9.8.	nos	1.00
75	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications S.R.page 122 Item 15.106	Sqmt	32.68
76	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification S.R.page 108 I,.No.14.56	Mtr	1.20

77	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. S.R.page124 Item 15.104	Sqmt	161.46
78	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughlycleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, completeas per specifications. S.R.page 121 item 15.59	sqm	4.25
79	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood basedsurface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. S.R.page 118 item 15.60.1	sqm	4.25
80	Providing and applying enamel metal paint two coats(excluding priming coat) over new steel or other metal surfacebrushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as perspecifications. S.R.page 120 item 15.74	Sqm	4.68
81	Refilling available earth around pipe lines ,cables in layers not exceeding 20cms in depth,compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.50m including cost of lla labour complete as per specification . S.R Page no 6, item no 2.11	cumt	1.70
82	Constructing brick masonary type manhole 1.22m internal dia at bottom 1.68m deep and 0.56m dia at top with table moulded and non modular bricks of class designation 50 in cement mortar 1:4 inside cement plaster 12mm thick with cement mortor 1:3 finished with a floating coat of neat cement ,foundaton concreet M10 using 40mm downsize granite metal and making necessary channel in CC M15 and 20mm downsize granite metaal finished with a floating coat of neat cement with SFRC cover and frame (heavy duty HD -20 grade designation) 560mm internal diameter confirming to IS :12592 total weight length of cover and frame to be not less than 182 kg fixed in cement concrete M15 20mm downsize broken granite metal,providing and removing centering ,shuttering including cost of materilas ,labour ,charges HOM of machinaries complete as per specifications,(Excavation footrest and 12mm thick cement plaster on the external surface shall be paid seperately) . S.R Page no 74, item no 11.39	nos	0.00
83	Providing and fixing to wall ,ceiling and floor high density polyethylene pipe 6.00 kgf/sq.m working presssure 90mm outside diameter with special flange ,compression type fittings ,wall clips making good the wall ,ceiling and floor ,including cost of all materilas ,labours charges ,HOm of Equipments and testing complete as per specification S.R.page 94 item 13.73.4	m	12.00

84	Providing and fixing to wall ,ceiling and floor high density polyethylene pipe 6.00 kgf/sq.m working presssure 140mm outside diameter with special flange ,compression type fittings ,wall clips making good the wall ,ceiling and floor ,including cost of all materilas ,labours charges ,HOm of Equipments and testing complete as per specification S.R.page 94 item 13.73.5	m	22.00
85	Constructing brick masonary inspection chamber 600 x 600 mm and 450mm depth (clear inside dimension)for single pipeline ,using table moulded non-modular bricks of class designaton 50 in cement mortar 1:5 C.I cover with frame ?(light duty) 600 x600mm inner dimension ,total weight of cover with frame to be not less than 38kg (weight of cover with frame 15kg) RCC top slab with cement 1:2:4 mix 20mm and downsize granite metal foundation concrete 1:5:10 with 40mm downsize granite metal inside plastering 12mm thick with cement mortar 1:3 finish smooth with a floating coat on wall and bed concreet complete as per standard including cost of materilas ,labours ,curing complete as per speciifcation S.R.page 73 item 11.50.2	each	4.00
86	Providing and fixing on wall surface 4.0kg/sqcm HDPE rain down watre pipes 110mm outer dia approved make and brand with necessary special like shoes ,bends and offsets fixed with iron clamps ,wall plugs ,screws ,including cost of materilas ,labour complete as per specifications S.R.page 49 item 8.19	m	12.00
87	Providing and placing on terrace,polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements ,making holes of suitable diameter for inlet ,outlet and over flow pipes ,includings cost of all materilas ,labour ,transport charges HOM of equipments and testing complete as per specification (For 1000 L capacity) S.R.page 96item 13.78	each	1.50
88	KSRB11-1 Providing and fixing white vitreous china lay ,water closet indian type(squatting pan)of size 580mm with footrests 100mm S or P trap ,10litre low lwvwl ,P.V.C flushing cistern (all are approved make)with fittings ,C.I /M.S brackets ,32mm diameter flush pipe fittings and clamps ,overflow arrangements with special and 25mm mosquito proof coupling of approved design,painting of fittings and brackets ,cutting and making good the wall and floor wherever required ,including cost of all materilas ,labour complete as per specifications.(S.R page no 79 item no 12.1)	each	4.00
89	KSRB 11-7.3 Providing and fixing white vitreous china cly ,flat back lipped front urinal wash basin of 430x260x350mm in the range of three 7.5 litres PVC automatic flushing cistern ,C.I /M.S brackets standards flush pipe and C.P brass spreaders ,with brass unions and G.I clamps painting of fittings and brackets ,cuttng and making good the wall and floor wherever required ,including cost of materials ,labour complete as per specifications(S.R page no 80 item no 12.90)	each	5.00

90	Providing and fixing white vitrous chinal clay ,surgeon type wash basin size 660 x 460 with a pair of 15mm CP brass pillar taps with pair of elbow operated levers C.I/M.S brackets 32mm CP brass waste of standard pattern painting of fittings and brackets ,cutting and making good the wall and floor wherever required ,including cost of materilas ,labours complete as per specification S.R.page 81 item 12.30	Each	4.00
91	Providing and fixing 453 x 357 dia rectangular shape mirror with plastic moulded frame of approved make ans shade with 6mm thick hard board backing including cost of materilas labour complete as per specification S.R.page 84 item 12.41	Each	5.00
92	Providing and fixing CP brass towel rail 600mm length ,20mm dia with CP brackets ,fixed to wooden cleats with CP brass screws including cost of materials ,labour complete as per specification S.R.page 83 item 12.46	Each	5.00
93	Providing gun metal pillar cocks 15mm dia of class confirming to ISI specification and fixing them in position as per directions including of cost of materials and fixtures and conveyance to spot S.R.page 97 item 13.80	Each	5.00
94	Providing and fixing water meter with stop cock ,jam nut ,socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materils ,labour ,HOM of equipments and testing complete as per speciifcation S.R.page 95 item 13.22	Each	4.00
95	providing and fixing chroinated poly vinyl chloride (CPVC) 20mm pipes confirming to IS 15778 ,having thermal stability for hot and cold water supply including all pvc plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing .This icludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete .(internal work exposed on wall) S.R.page 96 item 13.85.2	Each	33.00
96	providing and fixing chroinated poly vinyl chloride (CPVC) 25mm pipes confirming to IS 15778 ,having thermal stability for hot and cold water supply including all pvc plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing .This icludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete .(internal work exposed on wall) S.R.page 98 item 13.85.2	Each	36.00
97	providing and fixing chroinated poly vinyl chloride (CPVC) 50mm pipes confirming to IS 15778 ,having thermal stability for hot and cold water supply including all pvc plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing .This icludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete .(Externall work exposed on wall) S.R.page 98 item 13.85.6	Each	30.00

98	providing and fixing chroinated poly vinyl chloride (CPVC) 40mm pipes confirming to IS 15778 ,having thermal stability for hot and cold water supply including all pvc plain and brass threaded fittings including fixing the pipe with clamp at 1.00m spacing .This icludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete .(Externall work exposed on wall) S.R.page 96 item 13.85.5	Each	39.00
99	Providing and fixing in position brass ball valve high or low pressure with plastic loat of approved quality 20mm nominal bore including cost of all materilas ,labour and HOM of equipments with all leads complete as per specification S.R.page 94 item 13.41	Each	8.00
100	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materilas ,labour ad HOM of wquipments with all leads complete as per specification S.R.page 91 item 13.27	Each	8.00
101	water proofing of RCC terrace /podium slab/toilet /utilities /water retaining structures by preparing the surface by chipping and cleaning and Grouting of Honey comb,voids ,cracks /construction joints with cement slurry (1kg cement added with 100gm of inorganic accelarator ,followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry ,curing the surface to reduce the micro porosity and allowing it to dry ,curing the surface for the silicates to penetrate deeper into the concreete and spraying waterproofing impregnate liquid containg silane and silanol linear copolymer @ 0.50ltr per sqm and finally applying polymer slurry made out of cross linked acrylic /styrene /butadiene & cement in the ratio of 1:1 @ 50kg /sqm on the whole surface ,including all labour charges tools and the equipments all complete as per the specifications S.R.page 69 item 10.5.1	sqm	33.11
102	Providing stone ware gully trap 15cms x 10cms of approved quality and make fixing in M15 and plastering with CM 1:3 wherever necessary (rate includes cost of all materilas , fixture and lead), S.R.page 90 item 12.112.2	Each	7.00
103	Providing and fixing 7.5cm to 15cm dia NP grating 100mm dia S.R.page 90 item 12.111	Each	20.00
104	Providing and fixing of Door locking arrangements(page XV,item no 386	Each	5.00
105	Providing and fixing of Handles powder coated 150mm(page XV,item No,390)	Each	5.00
106	Providing and fixing of Hinges 5" heavy duty(Page No.XV,item No390)	Each	15.00
107	Providing and fixing of Hold fasts MS (Page No XV, item No 391)	Each	5.00

108	Providing and fixing of Tower bolt 300mm long(page No,XVI, item No 407)	Each	7.00
109	KSSRB M2100-5.2 Earthworh excavation by manual means for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.50m and above in width, in ordinary soil not exceeding 1.50m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications(SR 18-19 Pg 6 item no 2.3))	Cum	259.20
110	Providing and constructing granite / trap/basalt size stone masonry in foundation with cement mortar & stone hammered dressed in courses not less than 20 cm high bond stones at 2m depth apart in each courses including cost of materias labours HOM curing complete as per specifications KBS 5.1.13 CM 1:6 (Using availabl stones) P NO 225 I NO.34.8.2 of PW.P & IWTD S.R 2018-19	Cum	243.88
111	KSRRB 4-1.2- Providing and laying in position Plain Cement Concrete M10 with OPC cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.892 cum and fine aggregates @ 0.465cum, in foundation machine mixed, concrete laid in layers not exceeding 15cms. well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications.(SR18-19 Pg 13 & Item no 4.2))	Sqm	48.60
112	KSRB4-1.6 providing an laying in position Plain cement concrete of Mix 1:2:4 with OPC @ 240kgs ,with 20mm and downsize graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum ,amchine mixed ,concrete laid in layersnot exceeding 15 cms thick ,well compacted in foundation ,plinth and cills ,including cost of all materials ,albour ,HOM ,curing compete as per specifications	Cum	24.30
113	Supplying and fixing M.S rectangular poles made out of two equal angles of 65X65X6 mm welded together and fixed in CC 1:2:4 with two numbers 16mm dia M.S hold fast rods each of length 25cms including cost of all materials cutting, bending scaffolding whereever necessary, nicely finishing the welded jonts with all lead lift and as per the direction of engineer incharge of the work and including providing two coats of approved quality paint over coat of shop painting (excluding cost of earthwork and concrete).(SR 18-19, P-266, I.No-37.2))	Mtr	48.80
114	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hallow poles of 132 x132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x75mm galvanized flat for alround frame and 20 x 20mm galvanized forged ornamental arrow head in top and buttom the work is inclusive of throughing flat square rods placing welding all the joints including griding finishing 2 coats of anticorrossive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting griding with lead and lift as per specifications including loading and unloading with cost and conveyance	Sqm	641.25

	of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work		
115	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangularpoleas and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour lead and lift and as per the directions of the engineer incharge of work including two coats of approved quality paint over one coat of shop paint.(SR 18-19, P-266, I.No-37.3)	Sqm	135.00
116	Providing and fixing M.S block pipe of 38mm dia of heavy guage of 14 including removing the bends, cutting the pipes and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S block pipe including cost of all materials wastage in cutting and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint.(SR 18-19, P-266, I.No-37.4))	Mtr	240.00
117	Providing and fixing M.S Gate as per Chief Architect Drawing , using 50mm x 50mm x 14 gauge M.S hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16mm x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40 mm x 6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. all the steel surface should be throughly cleaned free of rust and painted with anti materials , labour charges for all items of work , Hire charges for welding , cutting and grinding eqipment , electricity charges , with lead and lift , loading and unloading charges , etc complete as per specification (SR 18-19, P-45, I.No-7.37)	Sqm	21.60
118	KSRB 15-18.2 Providing and applying enamel metal paint two coats (exclusive primer coat) over new steel or other metal surfaces brushing to give an shade after cleaning oil grease dirt and other forien matters including cost of materials labour complate as per specifications (P123 1.15.74 PW.P & IWTD PWD SR -2018-19	Sqm	1608.05

With respect to the above subject & name of work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the bill

Thanking you,

Transight Consultants (P) Ltd. Bangalore

With Regards

Executive Engineer
Project Division
Yelahanka Zone
BBMP